Certified General Workstation Report

AIM Technology

A UNIX Performance Summary based on the AIM Workstation Benchmark and the AIM Independent Resource Benchmark.

AIM Certified Workstation Report Series   Rev 2.0

Hewlett Packard 748/132L VME Workstation

Price	*CPU Type*	*Clock Rate*	*1st Level Cache*	*2nd Level Cache*	*RAM*
N/A	PA RISC 7300 LC	132MHz	64K inst, 64K data	None	256MB

Disks	*Video*	*I/O Buffers*	*O/S*	*File System*	*Compiler*
4GB, 9.5ms (1)	17" Color Monitor HCRX8 VME	Dynamic	HPUX v 10.20	HfS	GNU
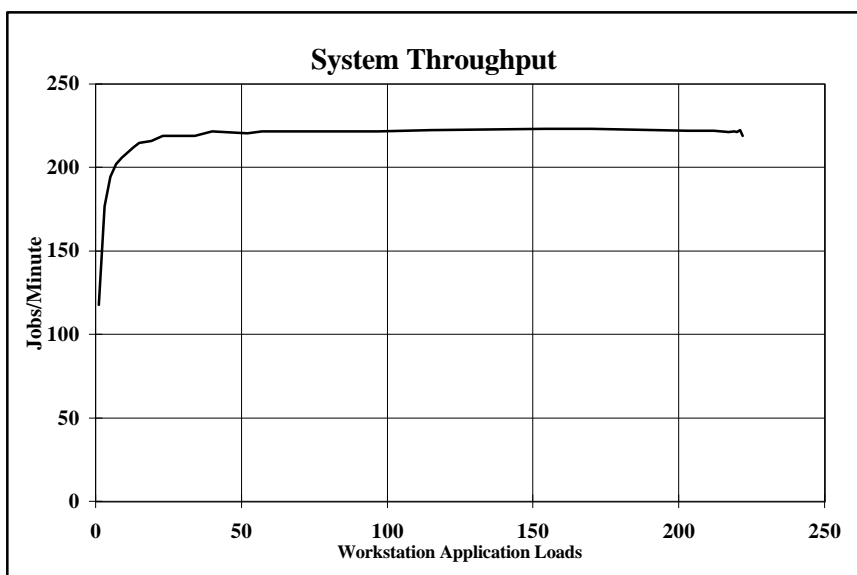
System Throughput
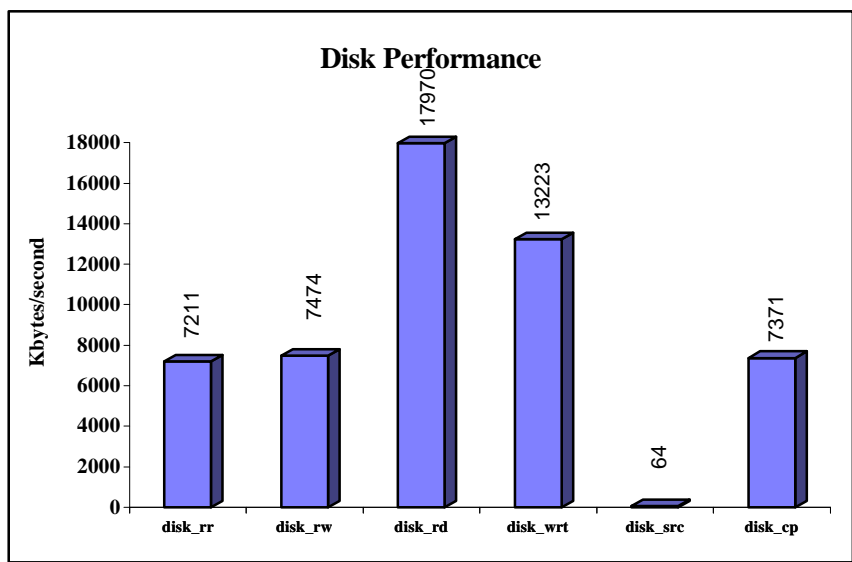

Peak Performance
223.3 AIM Workstation
Jobs/Minute

The **Peak Performance** reflects the system throughput at the point at which the system is able to process the most jobs per minute.

Sustained Performance
220.2 AIM Workstation Loads

The **Sustained Performance** indicates the multitasking operation load where the system's performance could become unacceptable, i.e less than 1 Job/Minute/Application Load.

Disk Performance

The single-tasking performance of cached disk operations (Random read/write, Sequential read/write, directory search and copy) is represented in kilobytes per second. **Cached disk performance** is especially important for interactive applications such as **Software Development and Spreadsheets**.
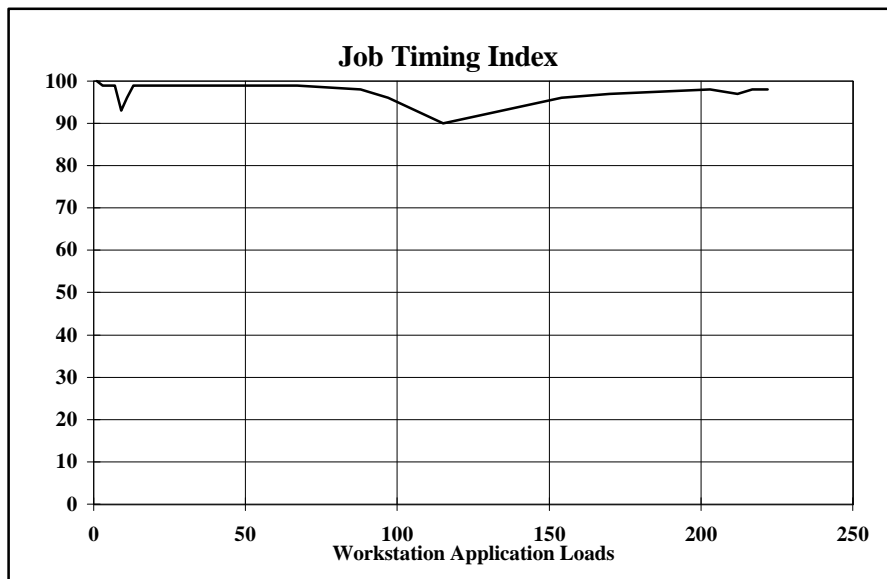
Certified By:

AIM Technology

February 24, 1998
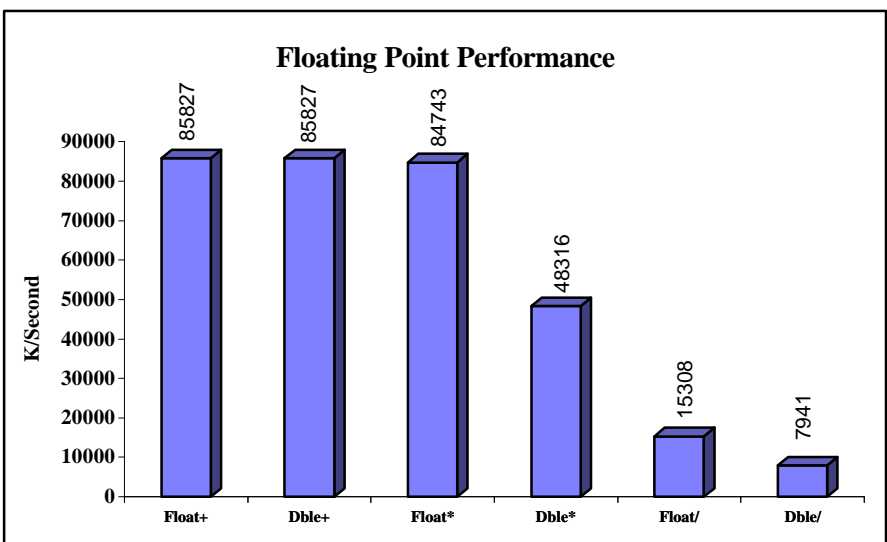
AIM ID #0714

Please see back page for report use

Independent Resource Performance

Job Timing Index

Job Timing Index

90

The **Job Timing Index** is a measure of the difference in completion times for concurrent jobs. It reveals the ability of a system to run processes simultaneously.

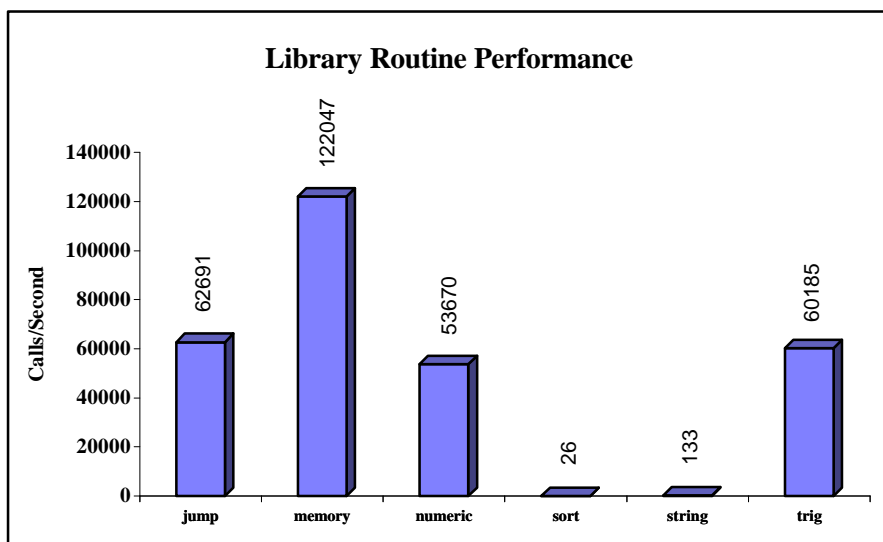### Floating Point Performance

At left, single-tasking performance of **floating point operations**: addition, multiplication and division of single and double precision floating point values is represented in thousands of operations per second. Floating point performance is especially important for **Scientific, Imaging, and Multimedia Applications**.

Integer Math Performance
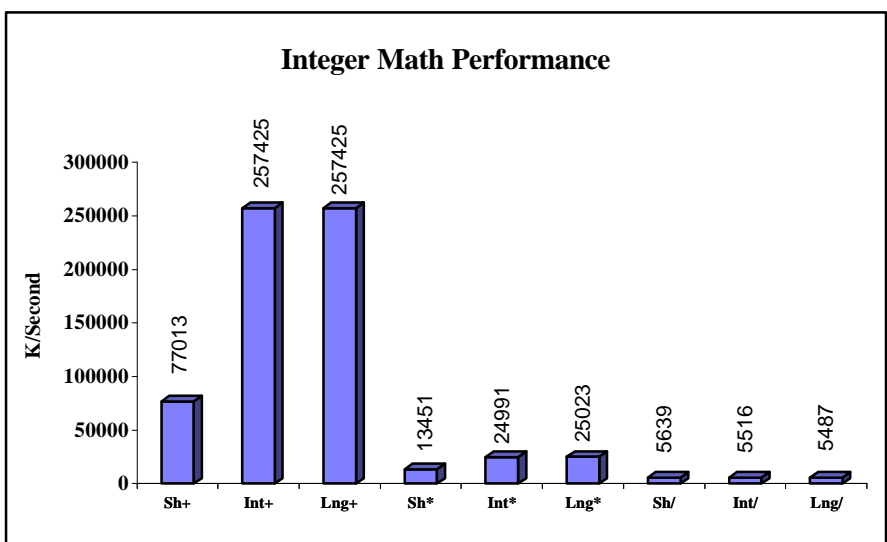
At left, single-tasking performance of **integer math operations**: addition, multiplication and division of short integer, integer and long integer values is represented in thousands of operations per second. Integer math performance is important in **all areas of computing**.
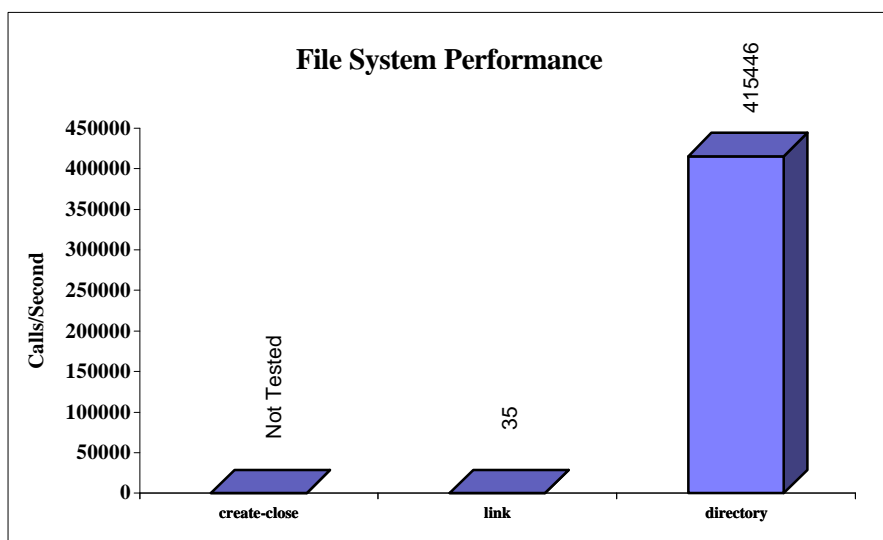
Independent Resource Performance

At right, single-tasking performance of Library Routines is represented in calls per second. String, sort, numeric, and memory routines are important for applications which use large amounts of data. Library Routines are especially important for **Desktop Publishing and Financial Applications.**

Library Routine Performance

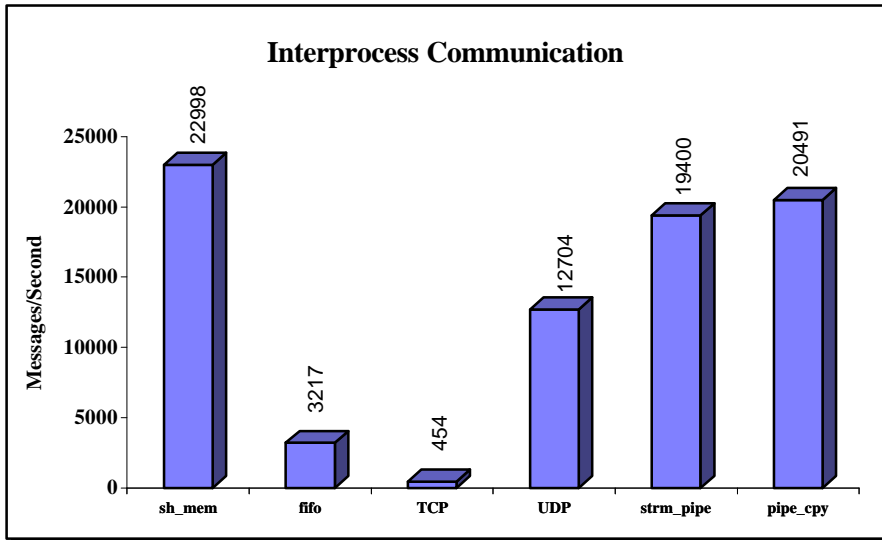| Routine	Calls/Second
jump	62691
memory	122047
numeric	53670
sort	26
string	133
trig	60185

At right, single-tasking performance of the fork, exec, and sbrk is represented in calls per second. These system calls are key UNIX performance parameters in the areas of **Process Creation and Memory Management.**

System Call Performance

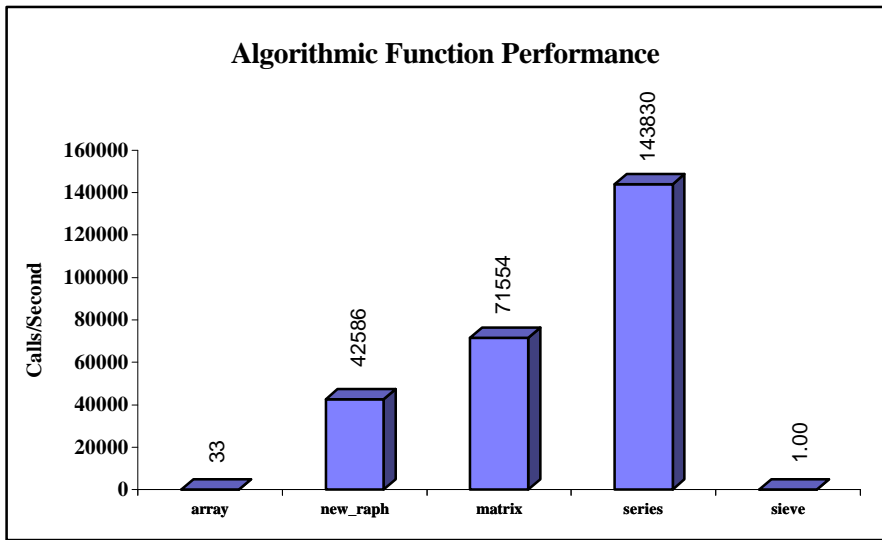| Call	Calls/Second
fork	226
exec	71
sbrk	54874
page	12038
signal	20186
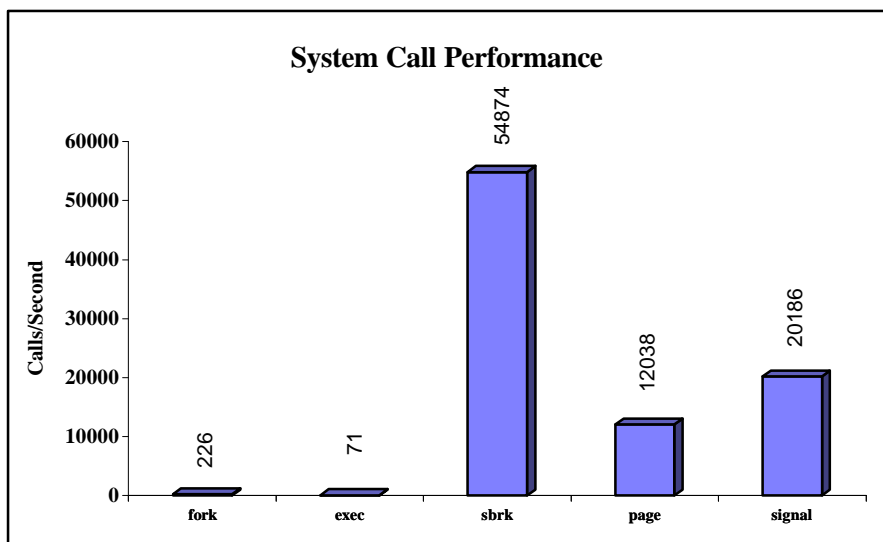
At right, single-tasking performance of create-close, link and directory read routines is represented in calls per second. These file system calls are key UNIX performance parameters in the areas of **File Creation and Deletion, Directory Modification and File Search.**

File System Performance

Routine	Calls/Second
create-close	Not Tested
link	35
directory	415446

Independent Resource Performance

Interprocess Communication

Messages/Second

- sh_mem: 22998
- fifo: 3217
- TCP: 454
- UDP: 12704
- strm_pipe: 19400
- pipe_cpy: 20491

At left, single tasking performance of systems using **shared memory** and other forms of **inter-process communications** is represented in messages per second. This is a measure of the IPC performance for **Client/Server, X Windows, and Database Applications.**

Algorithmic Function Performance

Calls/Second

- array: 33
- new_raph: 42586
- matrix: 71554
- series: 143830
- sieve: 1.00

At left, single-tasking performance of common **algorithmic operations** including simultaneous systems of equations, zeros of polynomials, 3D projections and series evaluations is represented in calls per second. Algorithmic operations are widely used in **Scientific Applications**.

USE OF THIS REPORT

This report is intended for use in comparing the tested system configuration to other AIM reports **using the same benchmarks with the same application mix**. Make certain the reports you are comparing use the same units, i.e. AIM Workstation Jobs/Minute. System performance will vary according to configuration, application mix, and usage. **If this report is used to reach a procurement decision, make certain the configuration is applicable to your requirements**. If you have questions regarding the applicability of this configuration, please contact the vendor or AIM Technology.

For information on other AIM Performance Reports and the AIM Benchmarks, contact AIM at ...

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